



JPW 1616/1#

PATENT  
Case SU-7245

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JONATHAN N. HOWARTH ET AL. }

SERIAL NO.: 10/028,631 }

FILED: DECEMBER 21, 2001 }

MICROBIOLOGICAL CONTROL IN  
ANIMAL PROCESSING }

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Enclosed herewith for consideration by the Examiner is a fourth Supplemental Information Disclosure Form PTO 1449 (modified). There are 140 documents listed, and but only 54 documents are enclosed.

Respectfully Submitted,

John F. Sieberth  
Reg. No. 17,704  
Attorney of Record

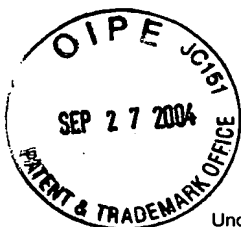
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PTO/SB/17 (10-03)  
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$180.00

## Complete if Known

Application Number	10/028,631
Filing Date	12/21/2001
First Named Inventor	Jonathan N. Howarth
Examiner Name	Neil S. Levy
Art Unit	1616
Attorney Docket No.	SU-7245

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number

502768

Deposit  
Account  
Name

Sieberth & Patty, L.L.C.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

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## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$)

### 2. EXTRA CLAIM FEES FOR UTILITY AND

		Extra Claims		Fee from below		Fee Paid
Total Claims	<input type="text"/>	-20** =	<input type="text" value="0"/>	X	<input type="text"/>	= <input type="text" value="0.00"/>
Independent Claims	<input type="text"/>	- 3** =	<input type="text" value="0"/>	X	<input type="text"/>	= <input type="text" value="0.00"/>
Multiple Dependent					<input type="text"/>	= <input type="text"/>

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$) \$0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non - English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR § 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Statement	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) \$180.00

## SUBMITTED BY

Name	John F. Sieberth	Registration No. (Attorney/Agent)	17,704	Telephone	225/291-4600
Signature		Date	Sep 23, 2004		

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

SEP 27 2004

Fourth Supplemental  
(use as many sheets as necessary)**Complete if Known**

Application Number,	10/028,631
Filing Date	12/21/2001
First Named Inventor	Howarth
Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245

Sheet 1 of 5

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	US-2	US-2130805	09-20-1938	Levine	
	US-3	US-2392505	01-08-1946	Rogers	
	US-4	US-2398598	04-16-1946	Rogers	
	US-5	US-2779764	01-29-1956	Paterson	
	US-6	US-2795556	06-11-1957	Quinn	
	US-7	US-2868787	01-13-1959	Paterson	
	US-8	US-2920997	01-12-1960	Wolf et al.	
	US-9	US-2971959	02-14-1961	Waugh et al.	
	US-10	US-2971960	02-14-1961	Waugh et al.	
	US-11	US-3121715	02-18-1964	Waugh et al.	
	US-12	US-3147219	09-01-1964	Paterson	
	US-13	US-3147259	09-01-1964	Paterson	
	US-14	US-3345371	10-03-1967	Paterson	
	US-15	US-3412021	11-19-1968	Paterson	
	US-16	US-3626972	12-14-1971	Lorenzen	
	US-17	US-4078099	03-07-1978	Mazzola	
	US-18	US-4119535	10-10-1978	White et al.	
	US-19	US-4126717	11-21-1978	Mazzola	
	US-20	US-4136052	01-23-1979	Mazzola	
	US-21	US-4199001	04-22-1980	Kratz	
	US-22	US-4242216	12-30-1980	Daugherty et al.	
	US-23	US-4270565	06-02-1981	King, Sr.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	FP-5	CA - 1230825	12-29-1987	Bristol-Myers Co.		
	FP-6	CA - 2042430	11-30-1991	Eltech Systems Corp.		
	FP-7	CA - 2163596	09-04-1996	S.C. Johnson & Son, Inc.		
	FP-8	EP - 0106563	04-25-1984	Rohm and Haas		
	FP-9	EP - 0177645	04-16-1986	Glyco Inc.		
	FP-10	EP - 0206725	12-30-1986	Jeyes Group Limited		
	FP-11	EP - 0228593	07-15-1987	Chesebrough-Pond's Inc.		
	FP-12	EP - 0581826	02-09-1994	Jeyes Limited		
	FP-13	GB - 1054243	01-04-1967	Wallace Cameron & Co.		
	FP-14	GB - 1600289	10-14-1981	Fisons Limited		
	FP-15	GB - 2273106	06-08-1994	Jeyes Group PLC		
	FP-16	JP - 56158333	12-07-1981	Teijin Ltd.		X
	FP-17	JP - 7299468	11-14-1995	Hakuto Co., Ltd		X

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of US PTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> SEP 27 2004 Fourth Supplemental (Use as many sheets as necessary)		Application Number	10/028,631
		Filing Date	12/21/2001
		First Named Inventor	Howarth
		Art Unit	1616
		Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	US-24	US-4293425	10-06-1981	Price	
	US-25	US-4327151	04-27-1982	Mazzola	
	US-26	US-4331174	05-25-1982	King, Sr.	
	US-27	US-4382799	05-10-1983	Davis et al.	
	US-28	US-4427692	01-24-1984	Girard	
	US-29	US-4451376	05-29-1984	Sharp	
	US-30	US-4465839	08-14-1984	Schulte et al.	
	US-31	US-4532330	07-30-1985	Cole	
	US-32	US-4534963	08-13-1985	Gordon	
	US-33	US-4537697	08-27-1985	Girard	
	US-34	US-4560766	12-24-1985	Girard et al.	
	US-35	US-4571333	02-18-1986	Hsiao et al.	
	US-36	US-4597941	07-01-1986	Bottom et al.	
	US-37	US-4621096	11-04-1986	Cole	
	US-38	US-4654424	03-31-1987	Girard et al.	
	US-39	US-4659359	04-21-1987	Lorenz et al.	
	US-40	US-4662387	05-05-1987	King, Sr.	
	US-41	US-4677130	06-30-1987	Puzig	
	US-42	US-4692335	09-08-1987	Iwanski	
	US-43	US-4698165	10-06-1987	Theyson	
	US-44	US-4713079	12-15-1987	Chun et al.	
	US-45	US-4728453	03-01-1988	Choy	
	US-46	US-4745189	05-17-1988	Lee et al.	
	US-47	US-4780197	10-25-1988	Schuman	
	US-48	US-4803079	02-07-1989	Hsiao et al.	
	US-49	US-4867895	09-19-1989	Choy	
	US-50	US-4919841	04-24-1990	Kamel et al.	
	US-51	US-4925866	05-15-1990	Smith	
	US-52	US-4964892	10-23-1990	Hsu	
	US-53	US-5076315	12-31-1991	King	
	US-54	US-5137563	08-11-1992	Valkanias	
	US-55	US-5218983	06-15-1993	King	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	FP-18	WO 8802987	05-05-1988	Great Lakes Chemical Corp.		
	FP-19	WO 8910696	11-16-1989	Great Lakes Chemical Corp.		
	FP-20	WO 9630491	10-03-1996	Jeyes Group PLC		
	FR-21	WO 9715652	05-01-1997	The Clorox Co.		
	FP-22	WO 9720546	06-12-1997	The Procter & Gamble Co.		

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**Fourth Supplemental  
(use as many sheets as necessary)

Sheet

3

of

5

**Complete if Known**

Application Number	10/028,631
Filing Date	12/21/2001
First Named Inventor	Howarth
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Examiner Name	Neil S. Levy
Attorney Docket Number	SU-7245

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		Number-Kind Code <sup>2</sup> (if known)			
	US-56	US-5338461	08-16-1994	Jones	
	US-57	US-5339889	08-23-1994	Bigham	
	US-58	US-5384102	01-24-1995	Ferguson et al.	
	US-59	US-5403813	04-04-1995	Lichti et al.	
	US-60	US-5409711	04-25-1995	Mapelli et al.	
	US-61	US-5422126	06-06-1995	Howarth et al.	
	US-62	US-5476116	12-19-1995	Price et al.	
	US-63	US-5565109	10-15-1996	Sweeny	
	US-64	US-5565576	10-15-1996	Hall et al.	
	US-65	US-5578559	11-26-1996	Dolan et al.	
	US-66	US-5591692	01-07-1997	Jones et al.	
	US-67	US-5603941	02-18-1997	Farina et al.	
	US-68	US-5610126	03-11-1997	Barford et al.	
	US-69	US-5614528	03-25-1997	Jones et al.	
	US-70	US-5670451	09-23-1997	Jones et al.	
	US-71	US-5750061	05-12-1998	Farina et al.	
	US-72	US-5753602	05-19-1998	Hung et al.	
	US-73	US-5756440	05-26-1998	Watanabe et al.	
	US-74	US-5763376	06-09-1998	Ward et al.	
	US-75	US-5780641	07-14-1998	Yerushalmi et al.	
	US-76	US-5859060	01-12-1999	Platt	
	US-77	US-5942153	08-24-1999	Heydel	
	US-78	US-5958853	09-28-1999	Watanabe	
	US-79	US-5972864	10-26-1999	Counts	
	US-80	US-5981461	11-09-1999	Counts et al.	
	US-81	US-5984994	11-16-1999	Hudson	
	US-82	US-6284144	09-04-2001	Itzhak	
	US-83	US-6448410	09-10-2002	Howarth et al.	
	US-84	US-6495698	12-17-2002	Howarth	
	US-85	US-6508954	01-21-2003	Elnagar et al.	
	US-86	US-6565868	05-20-2003	Howarth et al.	
	US-87	US-6638959	10-28-2003	Howarth et al.	
	US-88	US-6680070	01-20-2004	Howarth et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	FP-23	WO 9720909	06-12-1997	The Procter & Gamble Co.		
	FP-24	WO 9743264	11-20-1997	Great Lakes Chemical Corp.		
	FP-25	WO 9743392	11-20-1997	The Procter & Gamble Co.		
	FP-26	WO 0034186	06-15-2000	Stellar Technology Co.		
	FP-27	WO 0153209	07-26-2001	Albemarle Corp.		

Examiner Signature	Date Considered
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Fourth Supplemental (Use as many sheets as necessary) SEP 27 2004 PATENT & TRADEMARK OFFICE		Application Number	10/028,631
		Filing Date	12/21/2001
		First Named Inventor	Howarth
		Group Art Unit	1616
		Examiner Name	Neil S. Levy
		Attorney Docket Number	SU-7245
Sheet	4	of	5

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	L-20	Corral et al., "Substitution in the Hydantoin Ring. III. Halogenation", J. Org. Chem., 1963, Vol. 28, ppg. 1100-1104.	
	L-21	Jolles, "General Methods of Bromination", Bromine and its Compounds, 1966, Ernest Benn, London, ppg. 365.	
	L-22	Markish et al., "New Aspects on the Preparation of 1,3-Dibromo-5,5-Dimethylhydantoin", Ind. Eng. Chem. Res. 1995, Vol. 34, ppg. 2125-2127.	
	L-23	Orazi et al., "Halogenacion con 3-Bromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1949, Vol. 37, ppg. 192-196. (Not translated)	
	L-24	Orazi et al., "Halogenacion Con 1-3-Dibromo-5,5-Dimetil-Hidantoina", Anales Assoc. Quim. Argentina, 1950, Vol. 38, ppg. 5-11. (Not translated)	
	L-25	Gottardi: Reaction of Cl Br - In Aqueous solution (76 Zeutralks. Bakteriell., Parasiteukd., ) In Fektionskr. Hyg., Abt. 1; Orig., Geihe B 162 (3-4), ppg 384-388.	
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	L-36	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor Only) and Brominators, Hayward Pool Products Inc. Website, < <a href="http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=61">http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=61</a> >, 2 pages.	
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of

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**Complete if Known**

Application Number	10/028,631
Filing Date	12/21/2001
First Named Inventor	Howarth
Group Art Unit	1616
Examiner Name	Neil S. Levy
Attorney Docket	SU-7245

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	L-38	Hayward Pool Products Owner's Guide, Installation and Operating Instructions, "Hayward Chemical Feeder", Models C250CF, C500CF, C1100CF, C1800CF, C2400CF, - 1998 - 4 pages	
	L-39	Hayward America's #1 Pool Water Systems Product Catalog, "Automatic Chemical Feeders" "Chlorinators (Slow Dissolve Tri-Chlor Only) and Brominators, Buyers Guide, Hayward Pool Products Inc., Website, < <a href="http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=60">http://www.haywardnet.com/products/catalog/displayProdInfo.cfm?itemID=60</a> >, 2 pg	
	L-40	Pentair Pool Products Brochure, "Rainbow High Capacity Chlorine/Bromine Feeders", "Unsurpassed Performance From The Industry's Leader in Automatic Sanitizing of Large Residential and Commercial Pools", date unknown, 1 page.	
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	L-43	Sani-King Perform-Max Pool Sanitizer Instruction Guide, Models 910, 940, & 980 (Inline) and Models 930 & 960 (Off-line), date unknown, 16 pages.	
	L-44	Sani-King Spa Feeder Product Brochure Model 740 from King Technology Website, < <a href="http://www.kingtechnology.com/spafeeder.htm">http://www.kingtechnology.com/spafeeder.htm</a> > Visited (August 10, 2001), 2000, 4 pages.	
	L-45	Sani-King Adjust-A-Flo Product Brochure from King Technology Website < <a href="http://www.kingtechnology.com/spafeeder.htm">http://www.kingtechnology.com/spafeeder.htm</a> > (Visited August 10, 2001), 2000, 1 page.	
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	L-47	Sani-King Perform-Max Sanitizers for Above Ground Pools Product Brochure Model 910 & 930 from King Technology Website, < <a href="http://www.kingtechnology.com/perfermaxIG.htm">http://www.kingtechnology.com/perfermaxIG.htm</a> > , visited August 10, 2001, 2000, 1 page	
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	L-49	Sorum -- Fundamentals of General Chemistry, p. 315, 1955.	
	L-50	Al Zahrani, S.M., "Utilization of Polyethylene and Paraffin Waxes as Controlled Delivery Systems for Different Fertilizers", Ind. Eng. Chem. Res., 2000, vol 39, pp 369-371.	

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